



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements to Roads and Footpath Maintenance in Ward No 11 (Kuvempunagara)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
4	Fine aggregate	Aggregate Impact Value	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
5	Block(400*150*200)	Material finer than 75 micron	One Test		1	1
		BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
6	Precast (100mm)	COMPRESSIVE STRENGTH	One Test		1	1
		Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
7	Precast (250mm)	Equivalent Cube Compressive Strength	One Test		1	1
		Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
8	PCC(M15)	Equivalent Cube Compressive Strength	One Test		1	1
		Compressive Strength(7days and 28days)	3 set /16-30 cum	22.7	6	6

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9	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
10	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-10-02-22 Date: 19-09-20
 Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.
 Address : Vidyananyapura Sub Division, BBMP, Bangalore.
 Project Name : Improvements to Roads and Footpath Maintenance in Ward No 11 (Kuvempunagara)
 Agency : Sri.Deepak.B., 125, Mariyamma Temple Street, Kuvempunagara, 1st Stage, Jalahalli East Post, Karnataka-560014
 Customer's Reference : BBMP/EE/BTP/WO/112/2020-21
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 16-09-20
 Sample Type : Birla Super 53grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988
 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
 IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
 Date of test : 17-09-20
 Environmental Conditions during test : Temperature: 26°C
 Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.79	—
2	Finess by Air permeability method (m ² /kg, Min)	295.9	225m ² /kg, Min
3	Density (gm/cc)	3.15	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 90 days from the date of issue of test certificate



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R. Rudraprasad

R RUDRAPRASAD
 Authorized Signatory
 Technical Manager

[Signature]

Assistant Executive Engineer
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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-10-02-22 Date: 19-09-20

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Footpath Maintenance in Ward No 11 (Kuvempunagara)

Agency : Sri.Deepak.B., 125, Mariyamma Temple Street, Kuvempunagara, 1st Stage, Jalahalli East Post, Karnataka-560014

Customer's Reference : BBMP/EE/BTP/WO/112/2020-21

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 16-09-20

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 16-09-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-10-02-22

Date: 19-09-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.48	—
5	Bulk Density(Compacted) (Kg/l)	1.56	—
6	Water Absorption(%)	0.24	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-10-02-22 Date: 18-09-20
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Footpath Maintenance in Ward No 11 (Kuvempunagara)
Agency : Sri.Deepak.B., 125, Mariamma Temple Street, Kuvempunagara, 1st Stage, Jalahalli East Post, Karnataka-560014
Customer Reference : BBMP/EE/BTP/WO/112/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-09-20
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 16-09-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-10-02-22

Date: 18-09-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	—
4	Bulk Density(Loose) (Kg/l)	1.56	—
5	Bulk Density(Compacted) (Kg/l)	1.58	—
6	Water Absorption(%)	0.24	—
7	Aggregate crushing Value(%)	24.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-10-02-22 Date: 18-09-20

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Footpath Maintenance in Ward No 11 (Kuvempunagara)

Agency : Sri.Deepak.B., 125, Mariamma Temple Street, Kuvempunagara, 1st Stage, Jalahalli East Post, Karnataka-560014

Customer's Reference : BBMP/EE/BTP/WO/112/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-09-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 16-09-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-10-02-22

Date: 18-09-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2020-10-02-22 Date: 29-09-20

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Footpath Maintenance in Ward No 11 (Kuvempunagara)

Agency : Sri.Deepak.B., 125, Mariamma Temple Street, Kuvempunagara, 1st Stage, Jalahalli East Post, Karnataka-560014

Customer's Reference : BBMP/EE/BTP/WO/112/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-09-20

Sample Type/Size : Solid concrete blocks size (400X150X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 26-09-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	405	150	200	12150	33.018	2717.6	2674.3	Not less than 1800Kg/m ³
2	403	151	198	12049	31.153	2585.6		
3	400	149	203	12099	32.906	2719.8		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Certificate No.: TC-5548

Lab ID : CP-2020-10-02-22

Date: 29-09-20

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	152	201	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	402	153	200	
3	402	150	200	
4	404	152	200	
5	401	152	199	
6	402	151	201	
7	399	152	200	
8	404	150	201	
9	401	151	200	
10	402	150	201	
11	401	150	203	
12	402	150	202	
13	400	152	200	
14	402	152	200	
15	400	151	199	
16	403	152	203	
17	404	152	202	
18	400	150	199	
19	404	152	199	
20	400	150	200	
Average of 20	402	151	201	

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Certificate No.: TC-5548

Lab ID : CP-2020-10-02-22

Date: 29-09-20

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	402	152	61197	260.0	4.2	4.4
2	402	153	61450	283.0	4.6	
3	402	150	60071	252.3	4.2	
4	404	152	61512	257.4	4.2	
5	401	152	60820	254.6	4.2	
6	402	151	60573	279.4	4.6	
7	399	152	60714	282.0	4.6	
8	404	150	60479	257.3	4.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-10-02-22 Date: 02-10-20

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Footpath Maintenance in Ward No 11 (Kuvempunagara)

Agency : Sri.Deepak.B., 125, Mariamma Temple Street, Kuvempunagara, 1st Stage, Jalahalli East Post, Karnataka-560014

Customer's Reference : BBMP/EE/BTP/WO/112/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-20

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 28/09/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-10-02-22 Date: 02-10-20

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Footpath Maintenance in Ward No 11 (Kuvempunagara)

Agency : Sri.Deepak.B., 125, Mariamma Temple Street, Kuvempunagara, 1st Stage, Jalahalli East Post, Karnataka-560014

Customer's Reference : BBMP/EE/BTP/WO/112/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-20

Sample Type /Size : Precast Cover Slab (250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 28/09/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	200.51	250.48	3.116	31570	240.9	7.6	7.1	8.9
2	Cover Slab-2	200.49	250.52	3.122	31564	240.3	7.6	7.1	8.9
3	Cover Slab-3	200.50	250.51	3.118	31567	240.5	7.6	7.1	8.9

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

3-11

Assistant Executive Engineer

Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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****End of Report****



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R. Rudraprasad

R RUDRAPRASAD

Authorized Signatory

Technical Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-02-22 Date: 30/09/2020

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Footpath Maintenance in Ward No 11 (Kuvempunagara)

Agency : Sri.Deepak.B., 125, Mariamma Temple Street, Kuvempunagara, 1st Stage, Jalahalli East Post, Karnataka-560014

Customer's Reference : BBMP/EE/BTP/WO/112/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-09-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	23/09/2020	30/09/2020	150.84 X 150.17 X 150.14	22652	9.022	286.9	12.7	12.6
2	PCC	M15	23/09/2020	30/09/2020	149.05 X 150.17 X 150.76	22383	8.596	280.4	12.5	
3	PCC	M15	23/09/2020	30/09/2020	151.26 X 151.76 X 149.52	22956	9.006	286.8	12.5	

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 560014



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****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-10-02-22 Date: 30/09/2020

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Foothpath Maintenance in Ward No 11 (Kuvempunagara)

Agency : Sri.Deepak.B., 125, Mariamma Temple Street, Kuvempunagara, 1st Stage, Jalahalli East Post, Karnataka-560014

Customer's Reference : BBMP/EE/BTP/WO/112/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-09-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	23/09/2020	30/09/2020	150.19 X 149.96 X 151.43	22522	9.022	279.6	12.4	12.5
2	PCC	M15	23/09/2020	30/09/2020	150.74 X 149.07 X 150.11	22470	8.596	273.9	12.2	
3	PCC	M15	23/09/2020	30/09/2020	151.19 X 151.65 X 149.73	22928	9.006	293.8	12.8	

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Assistant Executive Engineer
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Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

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Agency : Sri.Deepak.B., 125, Mariamma Temple Street, Kuvempunagara, 1st Stage, Jalahalli East Post, Karnataka-560014

Customer's Reference : BBMP/EE/BTP/WO/112/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-09-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	23/09/2020	30/09/2020	150.10 X 149.29 X 150.00	22408	9.022	282.4	12.6	12.5
2	PCC	M15	23/09/2020	30/09/2020	151.80 X 150.84 X 151.22	22897	8.596	288.8	12.6	
3	PCC	M15	23/09/2020	30/09/2020	149.37 X 151.18 X 149.45	22583	9.006	277.0	12.3	

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